

Title (en)
Cap device

Title (de)
Kappenanordnung

Title (fr)
Dispositif capuchon

Publication
EP 1314605 A1 20030528 (EN)

Application
EP 02026179 A 20021125

Priority
• JP 2001359110 A 20011126
• JP 2002212785 A 20020722

Abstract (en)
A fuel cap 10 maintains high sealing even when subjected to external force; is easy to operate; and requires minimal space for accommodation. The cap device comprises a casing body 20 for closing the filler opening FNb in a sealed condition, a cover 40, a handle 45, a clutch mechanism 60 and a torque transmission mechanism 80. By upraising the handle to the handling position and applying rotational torque, rotational torque is transmitted to the casing body 20 via the clutch mechanism 60 and the torque transmission mechanism 80, closing the filler opening FNb. The handle 45 lowers back to the retracted position when released, whereupon the clutch mechanism 60 assumes non-transmission mode wherein the cover 40 and the handle 45 rotate freely if subjected to external force such as in a collision. <IMAGE>

IPC 1-7
B60K 15/04; **B65D 50/04**

IPC 8 full level
B60K 15/04 (2006.01)

CPC (source: EP US)
B60K 15/0406 (2013.01 - EP US); **B60K 2015/03401** (2013.01 - EP US); **Y10S 220/33** (2013.01 - EP US)

Citation (applicant)
US 4830058 A 19890516 - HARRIS ROBERT S [US]

Citation (search report)
• [DA] US 4830058 A 19890516 - HARRIS ROBERT S [US]
• [A] US 5385256 A 19950131 - BROWN DAVID M [US]
• [A] FR 2437992 A1 19800430 - BERDUCONE DOMINIQUE
• [A] GB 1205582 A 19700916 - LEONARD WILLIAM GEORGE GROVE J [AU], et al

Cited by
DE102010004693A1; DE102010004693B4

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 1314605 A1 20030528; **EP 1314605 B1 20050126**; CN 1269695 C 20060816; CN 1421360 A 20030604; DE 60202737 D1 20050303; DE 60202737 T2 20060223; US 2003098307 A1 20030529; US 6745914 B2 20040608

DOCDB simple family (application)
EP 02026179 A 20021125; CN 02152816 A 20021125; DE 60202737 T 20021125; US 30298802 A 20021125